

		Hydrophobic		Hydrophilic	
		-2	-1	0	1
		----- -----	----- -----	-----	----- -----
1	0.00			M	
2	0.00			H	
3	-0.15			= R	
4	-0.29			=== L	
5	-0.71			===== I	
6	-1.38			===== F	
7	-1.49			===== V	
8	-1.61			===== Y	
9	-1.47			===== T	
10	-1.30			===== L	
11	-0.88			===== I	
12	-1.23			===== C	
13	-1.10			===== A	
14	-0.75			===== N	
15	-0.75			===== F	
16	-0.17			== C	
17	0.30			S ===	
18	0.65			C =====	
19	0.87			R =====	
20	0.73			D =====	
21	0.83			T =====	
22	0.33			S ===	
23	-0.13			= A	
24	-0.02			T	
25	-0.15			= P	
26	-0.02			Q	
27	-0.25			=== S	
28	0.25			A ===	
29	0.13			S =	
30	-0.22			== I	
31	0.37			K =====	
32	0.35			A =====	
33	0.57			L =====	
34	0.10			R =	
35	-0.12			= N	
36	0.68			A =====	
37	0.68			N =====	
38	1.15			L =====	
39	1.73			R =====	
40	1.75			R =====	
41	2.08			D =====	
42	1.50			E =====	
43	0.70			S =====	
44	0.13			N =	
45	0.13			H =	
46	-0.22			== L	
47	-0.63			===== T	
48	-0.05			D	
49	0.75			L =====	
50	1.32			Y =====	
51	1.32			R =====	
52	1.55			R =====	
53	1.63			D =====	

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54	1.17		E =====
55	0.42		T =====
56	0.42		I =====
57	-0.08	=	Q
58	0.02		V
59	0.32		K ===
60	-0.10	=	G
61	-0.10	=	N
62	-0.57	=====	G
63	-0.52	=====	Y
64	-0.55	=====	V
65	-0.05		Q
66	-0.08	=	S
67	0.17		P ==
68	0.17		R ==
69	0.17		F ==
70	0.18		P ==
71	-0.32	===	N
72	0.60		S =====
73	0.63		Y =====
74	0.30		P ==
75	-0.05		R
76	-0.37	====	N
77	-0.43	====	L
78	-1.50	=====	L
79	-1.03	=====	L
80	-1.03	=====	T
81	-0.82	=====	W
82	-0.47	=====	R
83	-0.37	=====	L
84	0.70		H =====
85	0.23		S ==
86	0.47		Q =====
87	1.05		E =====
88	0.70		N =====
89	0.70		T =====
90	-0.10	=	R
91	-0.38	====	I
92	-0.73	=====	Q
93	-0.73	=====	L
94	-0.40	====	V
95	-0.40	====	F
96	-0.52	=====	D
97	-0.27	==	N
98	-0.15	=	Q
99	-0.15	=	F
100	0.32		G ==
101	0.20		L ==
102	1.12		E =====
103	1.15		E =====
104	1.95		A =====
105	1.15		E =====
106	0.48		N =====
107	1.07		D =====
108	0.18		I ==
109	0.65		C =====
110	-0.27	==	R

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111	-0.22	==	Y
112	0.45		D =====
113	-0.30	===	F
114	0.58		V =====
115	0.58		E =====
116	0.70		V =====
117	1.00		E =====
118	1.00		D =====
119	1.18		I =====
120	0.73		S =====
121	0.17		E ==
122	0.17		T ==
123	-0.18	==	S
124	-0.18	==	T
125	-0.12	=	I
126	0.33		I ===
127	-0.17	==	R
128	-0.03		G
129	0.27		R ===
130	-0.32	===	W
131	0.18		C ==
132	0.18		G ==
133	0.50		H =====
134	0.67		K =====
135	0.67		E =====
136	1.25		V =====
137	0.45		P =====
138	0.45		P =====
139	0.75		R =====
140	1.25		I =====
141	1.18		K =====
142	0.72		S =====
143	1.05		R =====
144	0.25		T ===
145	0.70		N =====
146	-0.10	=	Q
147	-0.10	=	I
148	-0.55	=====	K
149	-0.08	=	I
150	0.27		T ===
151	0.27		F ===
152	1.07		K =====
153	0.75		S =====
154	0.75		D =====
155	0.00		D
156	-0.13	=	Y
157	-0.13	=	F
158	-0.63	=====	V
159	-0.25	===	A
160	-0.25	===	K
161	0.50		P =====
162	0.28		C ===
163	-0.60	=====	F
164	-0.98	=====	K
165	-0.93	=====	I
166	-0.82	=====	Y
167	-1.62	=====	Y

1003947 1003947

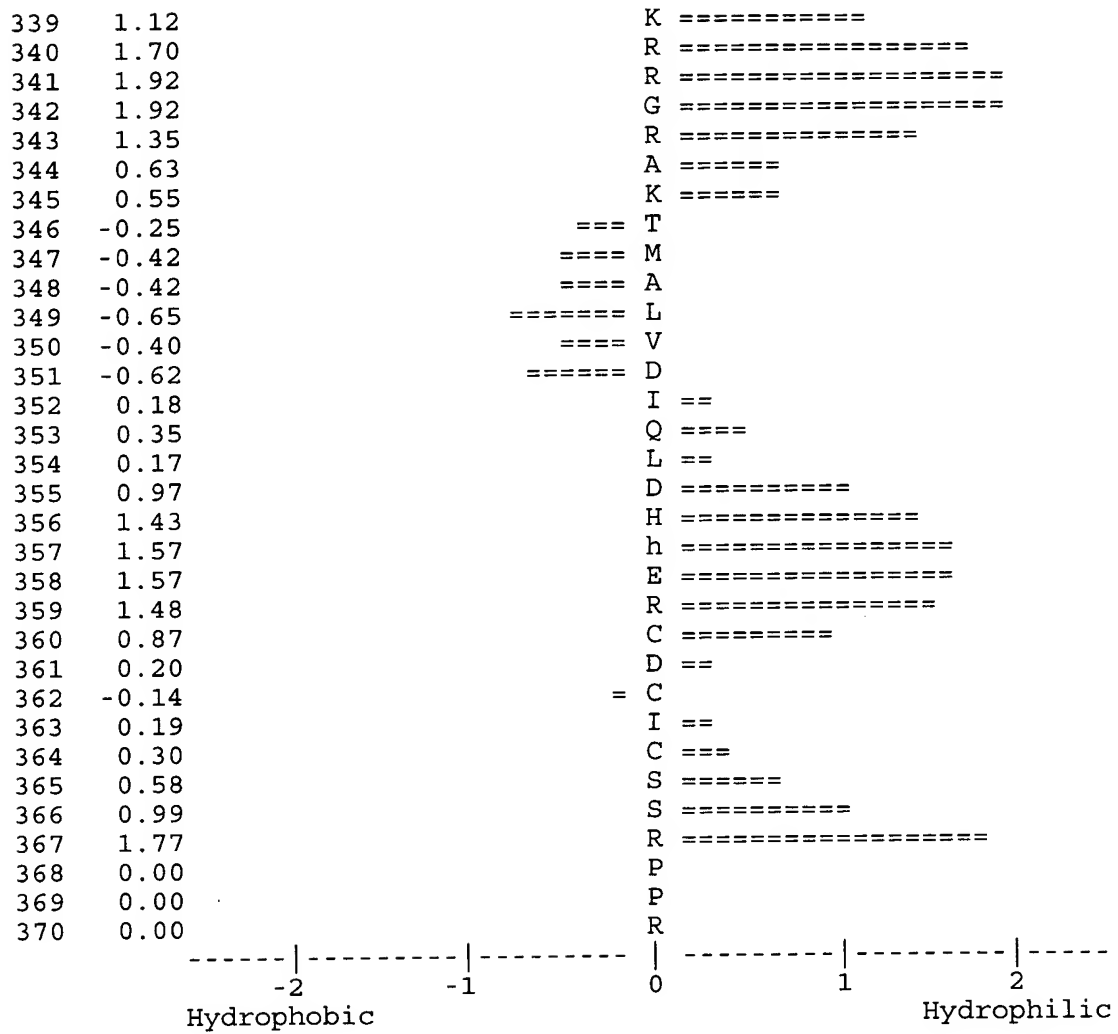
168	-0.82	=====	S
169	0.07		L =
170	0.03		L
171	0.02		E
172	0.32		D ===
173	0.53		F =====
174	-0.05		= Q
175	-0.63	=====	P
176	-0.17	==	A
177	0.30		A ===
178	0.23		A ==
179	0.35		S =====
180	0.27		E ===
181	0.85		T =====
182	0.85		N =====
183	0.10		w =
184	0.10		E =
185	0.12		S =
186	0.33		V ===
187	-0.47	=====	T
188	-1.08	=====	S
189	-0.83	=====	S
190	-1.02	=====	I
191	-1.02	=====	S
192	-1.45	=====	G
193	-1.12	=====	V
194	-0.50	=====	S
195	-0.50	=====	Y
196	-0.20	==	N
197	-0.50	=====	S
198	-0.18	==	P
199	0.28		S ===
200	0.23		V ==
201	0.17		T ==
202	-0.18	==	D
203	-0.23	==	P
204	-0.25	===	T
205	-0.25	===	L
206	-0.33	===	I
207	-0.57	=====	A
208	0.23		D ==
209	1.03		A =====
210	1.62		L =====
211	0.82		D =====
212	0.82		K =====
213	1.62		K =====
214	0.70		I =====
215	0.70		A =====
216	0.13		E =
217	0.18		F ==
218	0.77		D =====
219	0.77		T =====
220	0.88		V =====
221	0.08		E =
222	0.65		D =====
223	0.52		L =====
224	-0.40	=====	L

```

===== K
===== Y
===== F ==
===== N
===== P
===== E =====
===== S =====
===== w =====
===== Q =====
===== E =====
===== D =====
===== L =====
===== E =
===== N
===== M =
===== Y
===== L
===== D ==
===== T =====
===== P =====
===== R =====
===== Y =====
===== R =====
===== G =====
===== R =====
===== S =====
===== Y =====
===== H =====
===== D =====
===== R =====
===== K =====
===== S =====
===== K =====
===== V =====
===== D =====
===== L =====
===== D =====
===== R =====
===== L =====
===== N =====
===== D =====
===== D =====
===== A =====
===== K =====
===== R =====
===== Y =====
===== S =====
===== C =====
===== T =====
===== P =====
===== R =====
===== N =====
===== Y =====
===== S
===== V =
===== N =====
===== I =====

```

282	0.93		R =====
283	1.40		E =====
284	1.40		E =====
285	0.82		L =====
286	0.35		K =====
287	-0.40		L =====
288	-0.35		A =====
289	-1.27		N =====
290	-1.38		V =====
291	-1.30		V =====
292	-0.83		F =====
293	-0.75		F =====
294	-0.80		P =====
295	-0.68		R =====
296	-0.52		C =====
297	-0.48		L =====
298	-0.48		L =====
299	-0.48		V =====
300	-0.18		Q =====
301	0.12		R =
302	0.40		C =====
303	0.20		G =====
304	-0.30		G =====
305	-0.30		N =====
306	-0.87		C =====
307	-0.93		G =====
308	-1.22		C =====
309	-1.02		g =====
310	-1.58		T =====
311	-0.92		V =====
312	-0.30		N =====
313	-0.40		W =====
314	-0.22		R =====
315	-0.42		S =====
316	0.18		C =====
317	-0.27		T =====
318	-0.32		C =====
319	0.35		N =====
320	0.35		S =====
321	0.27		G =====
322	0.73		K =====
323	1.18		T =====
324	1.20		V =====
325	0.62		K =====
326	1.18		K =====
327	1.18		Y =====
328	0.38		H =====
329	-0.08		= E
330	-0.52		===== V
331	0.07		L =
332	-0.43		===== Q
333	-0.18		== F
334	0.03		E
335	-0.30		=== P
336	0.62		G =====
337	0.62		H =====
338	1.12		I =====



FIGURE